

WHAT IS CLAIMED IS:

1. A method of recovering a dropped call in a mobile station, comprising the steps of:

determining whether two consecutive good frames have been received on a traffic
5 channel that was disconnected in relation to the dropped call;

searching an adjacent base station whose signal arrives at the mobile station with a greater received signal strength using a searcher, while the frame receipt is checked;

requesting a traffic channel, at mobile station, to the searched base station;

assigning to the mobile station a traffic channel by the searched base station using a physical channel used for data transmission; and

resuming the call on the traffic channel that is first available between one of the recovered traffic channel and the assigned traffic channel.

2. The method of claim 1, wherein the traffic channels are fundamental channels.

3. The method of claim 1, wherein the physical channel for data transmission is a supplemental channel.

4. The method of claim 1, wherein the physical channel for data transmission is a
20 common control channel.

5. A method of recovering a dropped call in a mobile station, comprising the steps of:

determining whether a predetermined number of good frames have been received on a traffic channel that was disconnected in relation to the dropped call;

assigning to the mobile station a traffic channel by an adjacent base station using a supplemental channel, while the frame receipt is checked; and

5 resuming the call on the traffic channel that is first available between one of the recovered traffic channel and the assigned traffic channel.

6. A method of recovering a dropped call in a mobile station, comprising the steps of:

searching for an adjacent base station whose signal arrives at the mobile station with a greater received signal strength using a searcher, when a call is dropped;

assigning to the mobile station a traffic channel by the searched base station using a physical channel used for data transmission; and

resuming the call on the assigned traffic channel.

7. The method of claim 6, wherein the physical channel for data transmission is one of a supplemental channel and a common control channel.

8. A method of recovering a dropped call in a mobile station, comprising the steps of:

awaiting recovery of the dropped call while maintaining a physical channel established for the dropped call;

searching for an adjacent base station whose signal arrives at the mobile station with a

greater received signal strength using a searcher;

assigning to the mobile station a traffic channel by the searched base station using a physical channel used for data transmission; and

resuming the call on the traffic channel that is first available between one of the recovered traffic channel and the assigned traffic channel.

9. The method of claim 8, wherein the physical channel for data transmission is one of a supplemental channel and a common control channel.

10. A method of recovering a dropped call in a mobile station, comprising the steps of:

dropping a call after receipt of a first predetermined number of consecutive bad frames on a fundamental channel;

determining whether a second predetermined number of consecutive good frames have been received on the fundamental channel that was disconnected in relation to the dropped call;

searching for an adjacent base station whose signal arrives at the mobile station with a greater received signal strength using a searcher, while the frame receipt is checked;

acquiring system information by receiving and demodulating a sync channel from the searched base station;

requesting a traffic channel, at mobile station, to the searched base station;

assigning to the mobile station a traffic channel by the searched base station; and

resuming the call on the channel that is first available between one of the recovered fundamental channel and the assigned traffic channel.